

Recombinant Human DIAPH1 protein, His & GST-tagged

Cat. No. DIAPH1-1649H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DIAPH1 aa. (Asp389~Pro583 (Accession # O60610)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp389~Pro583
Description	This gene is a homolog of the Drosophila diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in Drosophila and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 54.5kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	5.7

GENE INFORMATION

Gene Name	DIAPH1 diaphanous related formin 1 [Homo sapiens (human)]
Official Symbol	DIAPH1
Synonyms	DIAPH1; diaphanous related formin 1; DIA1; DRF1; DFNA1; LFHL1; SCBMS; hDIA1; protein diaphanous homolog 1
Gene ID	1729
mRNA Refseq	NM_001079812.2
Protein Refseq	NP_001073280.1

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UniProt ID

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